

PROGRESS REPORT

June 1, through June 30, 1996

OFFICE OF NAVAL RESEARCH GRANT NO:

N00014-95-1-0055

DISSEMINATION STATEMENT A

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National Marrow Donor Program
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PROGRESS REPORT FOR OFFICE OF NAVAL RESEARCH

GRANT NO: N00014-95-1-0055

(As Modified by P00001)

This is the seventh periodic progress report of activities supported by Grant #N00014-95-1-0055, as modified. This report discusses activities from June 1, through June 30, 1996.

I. PROJECT DESCRIPTION

A. Specific Aims

During this period, the National Marrow Donor Program® (NMDP) used grant funds to support activities directed toward the following goals.

1. Enhance an already effective system which rapidly identifies and tracks the availability of matched donors for patients requiring marrow transplants.
2. Increase the total number and racial diversity of NMDP's volunteer donor file and provide HLA-DR typing on as many donors as possible in an effort to reduce patient search time and costs.
3. Perform HLA typing of the donor/recipient samples stored in NMDP's research sample repository, and compare the detailed molecular typing results with patient outcome data to determine the correlation between post-transplant outcome and degree of HLA match.

B. Budgeted Categories

1. **\$4,550,000 Scientific Studies of Allele-Specific Typing of Donor\Recipient Samples.**
2. **\$500,000 NMDP HLA Match Vs. Outcome Research**
3. **\$14,000,000 Histocompatibility Laboratories for DNA HLA DR Typing**
4. **\$500,000 Histocompatibility Laboratories for HLA-A, B & DR Typing**
5. **\$82,320 NMDP Staff Immunogeneticist**
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- 33. \$522,000 Targeted Group Awareness and Education Activities
- 34. \$550,000 Integrated Communications for Targeted Campaigns
- 35. \$50,000 Phase II National Public Service Campaign
- 36. \$7,375 Long Term Blood Storage Alternative Investigations
- 37. \$637,000 Program Administration
- 38. \$350,000 Alternative Blood Products Software

II. RESULTS BY CATEGORY

A. HLA Typing And Research

1. Scientific Studies of Allele-Specific Typing of Donor\Recipient Samples

This project's primary objective is to determine the impact of HLA matching, defined by the highest resolution of molecular typing possible, on transplant outcome. The project was initiated with funding from Navy Grant N00014-93-1-0658 and continues under funding from this grant. There are three phases to this study. Phase I continues the allele level class II typing on the donor-recipient samples stored in the NMDP's repository at Irwin Memorial Blood Center; Phase II entails obtaining allele-level class I typing on the donor-recipient samples; and Phase III involves data analysis and transplant outcome correlation.

Phase I

The nine laboratories involved in this phase of the project have now completed the typings of 1302 donor-recipient pairs funded under Navy grant N00014-93-1-0658. The level of resolution for continuation of this phase has been defined and the participating laboratories were requested to submit competitive bids by July 12, 1996 for evaluation.

Upon evaluation of competitive bids and extension of contracts, new samples will be forwarded to the laboratories for typing.

Phase II

Samples were forwarded to participating contract laboratories during the months of November and December 1995. Typing of these samples is currently in progress. Results reported to date are detailed in Attachment 2.

The NMDP will be responsible for the management of the data generated by the class I and II typing laboratories. Software and programming to manage the data and to make the necessary comparison was completed January 1996.

2. NMDP HLA Match Vs. Outcome Research

The NMDP is responsible for data analysis and offers biostatistical support for this project's approved studies. Correlation of the degree of HLA match with outcome in the paired samples is underway in several disease categories and an overall analysis of outcome is being designed.

3. Histocompatibility Laboratories for DNA HLA-DR Typing

In February 1992, a DNA pilot project was implemented to test the feasibility of using DNA technology, specifically Polymerase Chain Reaction (PCR) Sequence Specific Oligonucleotide Probe (SSOP) typing to identify the class II antigens at the HLA-DR and DQ loci. An additional focus of the pilot project was to institute a quality control system which would monitor the performance of the laboratories and establish an accuracy standard for PCR-SSOP typing. The pilot project successfully demonstrated that prospective collection of HLA-DR samples for storage and later typing by DNA contract laboratories was an efficient option for prospective HLA-DR typing of large numbers of volunteer donors as well as for patient-directed typing. In addition, the blind quality control program has shown that molecular HLA-DR typing can be performed at high volume and low cost and still be highly accurate (less than a 2% error rate overall). The efforts of the pilot project were funded under Navy grant N00014-91-J-1895.

Based on the success of the DNA pilot project, the program was expanded (under funding provided through Navy grants N00014-92-J-1551 and N00014-93-1-0658) to include two DNA repositories, 16 contract DNA typing laboratories and all NMDP donor centers. The design of the DNA project remained virtually identical to that of the pilot project and continues to include ongoing quality control. Funding for these typings was provided through this Navy grant beginning on March 1, 1995. Prior to that time, Navy Grant N00014-93-1-0658

funded the typings for this project. Attachment 3A details the activities of these laboratories.

4. Histocompatibility Laboratories for HLA-A, B & DR Typing

Currently, the NMDP does not hold contracts with laboratories to perform the initial typing of NMDP volunteer donors. To better manage and control the quality and level of specificity of the initial typing performed on volunteer donors, a network of contract laboratories is anticipated to be established, monitored and quality controlled by the NMDP. The model for this network is the NMDP HLA-A, B & DR Pilot Project, conducted between November 1993 and June 1994. Separate Request for Proposals (RFPs) for contract typing laboratories and quality control laboratories will be released in mid-1996. Since the RFPs have not yet been released, no funds have been expended in this category to date.

5. NMDP Staff Immunogeneticist

As the typing programs of the NMDP have grown and as the HLA typing technology has branched into molecular methods, the NMDP has identified the need for a staff Immunogeneticist. The staff Immunogeneticist will provide a variety of functions which include:

- Providing leadership in areas of histocompatibility policy making, i.e., concerning the matching process, long-term HLA typing strategies, future technology assessment and research opportunities.
- Providing consultation services to patients and physicians when questions of histocompatibility arise, i.e., the interpretation, especially on a molecular level, of a "match."
- Filling the role of an on-site technical expert to advise on the various NMDP typing projects and quality control programs.

Currently, this position has not been filled and no funds in this category have been expended.

6. Repository

The NMDP's two DNA repositories (American Red Cross National Headquarters and Children's Hospital of Pittsburgh) continued to receive samples from virtually all of the NMDP's donor centers. Approximately 90%-95% of all newly recruited donors have samples submitted to one of the two NMDP DNA repositories. Currently, repository services provided by the Children's Hospital of Pittsburgh are funded separately. The activity of the two repositories during the report period is detailed in Attachment 3B.

7. Feasibility for Confirmatory Class I DNA Testing

The technology of molecular HLA typing for identification of class I HLA types has progressed rapidly in the past few years. Although the technology is not as advanced as in class II HLA typing, it has progressed to the point where antigen-level typing can be performed by molecular means for the HLA-A and B loci.

The feasibility of developing a network of labs to perform DNA-based HLA-A, B typing, the impact on existing procedures and practices at the transplant centers and DNA repositories, and the costs associated with developing this network would be determined and used to evaluate whether network-wide implementation is possible. The benefit of utilizing molecular class I typing lies in the ability to perform a very accurate, detailed molecular typing on a stored sample, to confirm a questionable result or to implement confirmatory typing while the donor is completing other parts of the search process, such as the information session or physical exam. Either scenario would result in a shortened search process, because fewer discrepant samples would be identified in later stages of the search process. The ability to conduct confirmatory typing in parallel with other donor procedures would significantly shorten the search process, saving lives in those cases when the patient has little time to spare. An RFP will be developed and released by mid-1996 to solicit proposals from laboratories capable of performing DNA-based HLA-A, B typing. Since the RFP has not yet been released, no funds have been expended in this category to date.

8. Contract Laboratory for Reference/Pre-Test Cells

The purpose of the cell line laboratory is to establish, maintain and distribute immunogenetically defined cell lines to NMDP contract labs or labs competing for NMDP contracts. In addition, this cell line laboratory will establish international relationships with other national repositories/cell line laboratories to exchange information and to provide a conduit for distribution of cell lines originating from other repositories. The cell line laboratory will continue to add new types to their stock and participate with other laboratories/repositories to obtain these new types. The cells will be maintained free from infection with viability sufficient to ensure expansion. An RFP will be released in mid- to-late-1996 to solicit proposals from institutions capable of providing this service to the NMDP. Since the RFP has not yet been released, no funds have been expended in this category to date.

9. Class I Sequencing Database

With the initiation of the high resolution class I allele-specific typing of the donor-recipient pairs, the NMDP requires access to a current

database containing all HLA class I sequences. This information is used to:

- (1) assign probe or primer "hits," most effectively carried out by loading sequence alignments into a spreadsheet format; and
- (2) identify newly obtained gene sequences, most effectively done by computerized matching to sequence data maintained in separate files followed by alignment of most closely matched sequences.

Currently these data are not widely available to researchers in a standardized, usable format. In order for the NMDP typing laboratories and transplant centers to have access to these data in a usable format, the NMDP has contracted with Stanford University (Peter Parham, Ph.D.) to obtain the necessary materials and information. The contract was executed on October 1, 1995 and the second quarterly report was received in mid-April 1996.

B. Electronic Communication

1. Donor Center Hardware/Software

The conversion of STAR LinkTM to all domestic donor centers using DMAT Continues. As of the end of June 1996, 38 donor centers were successfully converted to STAR Link. The conversion continues as planned and it is anticipated that by the end of November 1996, all domestic donor centers now using DMAT will be converted.

2. Facilitation of Rapid Communication with Foreign Registries

The NMDP is working in cooperation with foreign registries to provide international data exchange and to streamline international searches. The STAR[®] system has been installed and is currently operating at the Australian Bone Marrow Donor Registry (ABMDR) in Australia. NMDP preliminary searches are sent electronically on a daily basis to the Anthony Nolan Bone Marrow Trust in England, who then returns a file of search results. A similar interface has been designed, developed and tested for France Greffe de Moelle (FGM). The NMDP began electronically sending preliminary searches to the FGM in July of 1996.

3. Probability of A, B, DR Identical Matches

To better serve patients and families in the search for an unrelated donor, the NMDP has extended a grant (#5208) with the University of Utah (Drs. Patrick Beatty, Motomi Mori and Edgar Milford) to develop a computer program to predict the likelihood of finding an HLA-A, B and DR identical match in a pool of HLA-A, B typed donors. The software has been developed, beta tested and results validated at the

NMDP. The program will be made available to a small number of transplant centers via the World Wide Web to conduct the second phase of Beta testing. Based on the results of this Beta test, the optimal means to make this program available to NMDP Transplant Centers will be determined. It is also being utilized within the NMDP Search Coordinating Unit to assist with determining search strategies on difficult searches.

4. Revision of Search Algorithm

Although the STAR system stores the DNA typing data for both donors and recipients, the current matching algorithm evaluates the match grade based upon serologic equivalent typing results. The NMDP Histocompatibility Committee addressed the need to revise the algorithm to incorporate molecular-based matching at its November 6, 1995, meeting. A working group of histocompatibility experts and transplant center physicians will be convened to define the matching criteria. No funds have been expended from this category to date.

5. Data Management for the International Consortium on the Effects of Radiation/Studies of effects of Exposure to Ionizing Radiation

NMDP involvement in the project for Data Management for the International Consortium on the Effects of Radiation to this point has consisted of assisting the ICRHER define, develop and standardize data collection forms. Discussions are currently being held with ICRHER to define the role and responsibilities of the NMDP as data managers.

6. HR/HW Search

During the development of the STAR Link Donor Center Software it was determined that the scope of the project required expansion to include tracking of donors who were chosen to backup primary donors. Utilizing funds in this category, a "Held for Workup" (HW) phase in the donor management process was built into STAR Link donor center software to accommodate this need.

The HW search request occurs when a transplant center requests a donor to be held and remain active on the patient search, as a secondary donor. This donor is usually at HW until the primary donor has completed the physical examination. The secondary donor could be called up to WU, if the primary donor is released from the patient search. Prior to the creation of the HW stage released at CT, to be reactivated to HW. With the new HW stage table, the SCU has the ability to reactivate a donor directly to HW.

The HR search stage is an optional stage that occurs prior to an international transplant center requesting a donor for CT. At HR, the

donor center is requested to bring in the donor for a blood draw and the blood is sent to be high resolution DNA typed. This saves time and money to international transplant centers, since they can request for CT only donors that have been confirmed to be good matches via high resolution typing. The results are received at STAR and passed along to the transplant center. Based upon the results, the transplant center will have the option to move the donor for additional testing at CT or release the donor. The SCU had been handling these requests manually and the NMDP Finance Department had been billing transplant centers manually. STAR now takes care of these requests automatically.

7. Resolution of Discrepant HLA Typing on Donors

This project addresses the tracking and resolution of discrepancies between HLA typings in STAR performed at different times by different laboratories. An NMDP policy adopted in 1994 requires that discrepant typings be removed from the registry and not searched for patients until conclusive results are determined and entered into the system. An automatic notification system will be developed to alert donor centers in the event of discrepant typings and to follow up on the resolution of the discrepancies. Modifications to STAR Link will also be required.

8. Donor HLA Override Modifications

The STAR system's HLA override process compares a donor's current search antigens with any new HLA typing data reported on the donor, to determine whether the new typing data should replace or override any of the current search antigens. The rules for HLA override are based on a hierarchical system determined by the source of the typing results without regard to whether DNA typing data were reported. This project involves reevaluating and modifying the HLA override process to reflect that DNA values are more accurate and precise than serologic values regardless of the source of the antigens.

Initial analysis for the HLA override project began in December 1995. Work on this project is currently being performed in conjunction with several other DNA-related projects.

9. Enhancements to BMDW Processing

Bone Marrow Donors Worldwide (BMDW) is a compilation of donor phenotype data from registries around the world. The file is updated on a quarterly basis with input from all participating registries and is then sent to subscribing registries and transplant centers, including the NMDP. This file is searched at the NMDP on a daily basis for all preliminary searches.

The funding for this project will support full automation of the BMDW search and customization of the BMDW reports which are sent to transplant centers.

10. Cord Blood Repository Software

Technological advances in the field of umbilical cord blood stem cell transplantation present opportunities to the NMDP to perform patient searches not only against the registry of live donors but also against a repository of available cord blood. Software will be needed to facilitate storage, inventory and retrieval of cord blood at the designated repositories. Likewise, changes will be required in the STAR and STAR Link software to integrate cord blood as an additional source of progenitor cell blood products available to patients.

Preliminary analysis of requirements for implementing cord blood began in November 1995. A prototype system for matching patients to cords has been proposed, and in January of 1996 the conceptual design for such a prototype was developed. Development of the prototype, further analysis and definition of requirements continue. In May 1996 a meeting of the Cord Blood Advisory Panel was held. Information gathered at this meeting has been used to develop the conceptual design for a computerized cord blood registry and tracking system and to develop operational procedures for the search process.

11. Transplant Center Software

Advances in technology and the amount of data required by the NMDP make it appropriate to reevaluate opportunities to develop and implement computer software for use by transplant center personnel. Transplant center software could provide a more efficient way to manage patient searches through better reporting methods, the ability for transplant centers to enter pre- and post-transplant forms electronically, and the ability to rapidly transmit data to (and from) the NMDP.

12. Modify Repository Software

Inventory at the two blood repositories and communication between the repositories and the NMDP is currently managed by repository software named DNACR. New processes of storing and retrieving samples from the repositories are being evaluated. In the future, new systems of storing "samples", including lyophilization, may be implemented. Such changes will require modifications to both the DNACR repository inventory software and to the STAR system to support the new processes. Current modifications include enhancing DNACR to allow storage of three or more aliquots.

13. Alternative Blood Products

STAR® will require significant enhancement to handle the tracking and facilitation of the alternative blood products that will include:

- G-CSF (granulocyte colony stimulating factor) to donors, primary and secondary donation.
- Platelets.
- Unstimulated peripheral blood stem cells via Leukapheresis techniques, secondary donation.
- Whole blood units.
- Additional tubes of blood from the donor for transplant center to repeat tests.

Significant accomplishment, by the project team, has been made through the end of June 1996. The project team completed the detail design for the modifications to STAR and STAR LINK and are now in the programming phase of the project. Programming will continue through the end of August 1996.

C. Donor Services Activities

1. Minority HLA-A, B Typing

Minority funds are available to pay the full cost of tissue typing any African American, Hispanic/Latino, Asian/Pacific Islander and American Indian/Alaska Native wishing to join the Registry. The race of the volunteer donor is self designated.

Donor centers may access funds from the grant in two ways: 1) by completing a Recruitment Drive Funding Request and 2) by typing donors on a "walk-in" basis as individuals present themselves either at the donor center or as part of a community drive.

The Navy Grant allows for the payment of the tissue typing of Caucasian donors of up to 10% of the number of the minority donors tested at a minority focused drive. The guidelines for the use of these funds require that Community Matching Funds not be used at the same event and that the 10% allowance is restricted to a date specific event and not cumulative.

2. National Minority Campaigns

Minority recruitment efforts have continued uninterrupted through the four previous Office of Naval Research Grant Numbers: N00014-90-J-4097, N00014-91-J-1895, N00014-92-J-1551, N00014-93-1-0658 and will be extended with funding from grant N00014-95-1-0055. The four racial and ethnic minority groups being recruited are: African American, Hispanic/Latino, Asian/Pacific Islander and American Indian/Alaska Native.

The NMDP has established overall recruitment goals for each minority group. These goals are based on population demographics and NMDP's past experience in recruiting members of each minority group. The goals will be achieved through development of targeted campaigns in selected areas; establishment of working relationships with national organizations such as the National Association for the Advancement of Colored People (NAACP) which will support NMDP recruitment efforts through their local chapters; and expansion of existing, successful, recruitment efforts throughout the country. (Attachment 4)

In Navy grant N00014-93-1-0658, \$400,000 was awarded to support development of four ethnic-specific campaigns to increase the number of minority volunteer donors recruited. African American and Asian/Pacific Islander recruitment campaigns were begun in 1993 and 1994 respectively. The Hispanic campaign began in August 1995. The American Indian/Alaska Native initiative is being developed with a tentative "kick-off" of summer of 1996.

Each minority recruitment campaign is designed to target five to eleven areas of the country. Before a campaign is implemented at the local level, a public relations firm experienced in reaching the target ethnic group is hired to develop materials for the campaign. Materials developed by the public relations firms working with NMDP Communications and Education staff are used in each target market to ensure that consistent messages are delivered for each campaign.

An important component of the campaigns is the establishment of local committees composed of volunteers who are active members of their communities. The committees are responsible for working with local NMDP Donor Centers and Recruitment Groups to plan and organize donor education and recruitment events in their areas. An NMDP Donor Services Coordinator is assigned to work on each campaign to assist the local donor centers and recruitment groups in establishing recruitment goals and plans to achieve those goals.

Each local campaign is initiated by a "kick-off" event. Local community leaders are invited to the event as are members of the local media. The goal of these events is to build awareness and support in the community and to promote media coverage of the campaign. This

education and awareness building period is followed by recruitment drives sponsored and organized by the local NMDP centers.

Each campaign also encourages the inclusion of special events and activities developed through collaboration with selected national organizations. Examples of such organizations are the NAACP and Black Expo USA.

African American Campaign

Local AAUL campaigns came to a close December 1995. Total donors recruited through AAUL efforts was 39,633, 112% of the goal of 35,300 donors to the Registry. Although the AAUL campaign has officially come to a close, recruitment efforts will continue in this area, including the use of campaign education materials.

Asian/Pacific Islander Campaign

Five target markets were selected for the "Asian /Pacific Islander Donors Can Save Lives" (API) campaign. They are northern California, southern California, Seattle, New York and Hawaii. The initial "kick-off" event was held in March 1994 and was attended by representatives of the community and local media. This campaign has a goal of 35,600 new donors and will come to a close August 1996. (Attachment 5)

As with the AAUL campaign, a public relations firm was hired to develop brochures, fliers, videotapes and other materials to support the API campaign and deliver a consistent message throughout the country. In addition to English, these materials have been translated into Korean, Vietnamese, Chinese and Japanese.

Hispanic Campaign

Six target markets were selected for the Hispanic campaign, "Hispanics Giving Hope," which was implemented in August 1995. Markets included are southern California, four locations in Texas and Puerto Rico. The goal of this campaign, to end in 1997, is 37,688 new donors. (Attachment 6)

Bilingual posters and brochures have been developed in cooperation with the communications firm of Valencia, Perez and Echeveste. Flyers and other collateral materials have also been created to support the campaign.

A "kick-off" meeting was held in December 1995 with all the target markets represented and NMDP staff present.

One of the components of the campaign, as with the other campaigns, is to work with national organizations to collaborate with NMDP in

education and recruitment of donors. NMDP currently is collaborating with the League of United Latin American Citizens (LULAC) and the National Council of LaRaza to assist in accomplishing our goals.

American Indian/Alaska Native Initiative

The American Indian/Alaska Native (AI/AN) initiative is the last of the four initiatives proposed in 1993. This initiative is currently being developed with a target "kick-off" of summer of 1996.

This initiative is a full service approach to American Indian/Alaska Native communities based on findings from field visits into Indian Country, meetings with Indian leaders, network survey, discussions with donor center personnel and the stated needs of the NMDP. This initiative has three major objectives.

The first objective is to increase the opportunities to include American Indians and Alaska Natives as active participants in the NMDP and as donors into the Registry, i.e., recruitment. The two year goal is 9,000 new donors from the targeted markets. Focused recruitment will take place within 14 states in Indian Country with Alaska phased in. In light of NMDP data which indicates a high percentage of AI/AN patients who have a least one preliminary match, additional costs to the NMDP for the recruitment portion of this initiative are minimal. A great deal of training and/or coaching will be provided for interested non-minority recruiters who have expressed a lack of knowledge on how to recruit this unique population.

The second objective is to increase the number of preliminary and formal searches for AI/AN patients through professional education. Professional education will focus on AI/AN opinion leaders, physicians, nurses, social workers and Community Health Clinic staff to provide basic information they need to assure that AI/AN bone marrow transplant candidates are aware of the NMDP and have equal access to NMDP and transplant center resources. Professional conferences and support from national Indian organizations are the primary targets of professional outreach.

The third objective is fundraising to help provide bone marrow transplants to AI/AN patients who otherwise could not afford the procedure. Targeted sources for fundraising are Indian owned and operated casinos and bingo halls. The Marrow Foundation would be a partner in this effort and the administrator of the fund. This special fund would help pay for bone marrow transplants for AI/AN patients who qualify for but cannot afford them.

A public relations firm will work with the NMDP Communications and Education department and the initiative coordinator to develop

educational materials and other collaterals. This firm will also focus heavily on physician education.

As with the other campaigns, the NMDP is collaborating with United Nations Indian Tribal Youth (UNITY) and working with organizations such as the National Indian Health Board and the National Indian Education Association to assist in accomplishing our goals.

National Outreach to Organizations

The NMDP has targeted 13 national minority organizations for outreach and collaboration. Organizations under current collaboration include: National Association for the Advancement of Colored People (NAACP), National Council of Negro Women, Inc., Association of Asian Pacific Community Health Organizations (AAPCHO), League of United Latin American Citizens (LULAC), National Council of LaRaza and the United Nations Indian Tribal Youth (UNITY). These formal collaborations will typically last for a period of two years, at which time another national organization will be targeted.

3. Pilot Recruitment/Retention Programs

In 1993, the NMDP requested Navy funds to continue minority focused recruitment efforts after the targeted campaigns were completed. The goal was to develop models for each racial/ethnic group that would maximize the numbers of donors recruited onto the registry and also improve retention of these donors when they were contacted for further testing on behalf of a patient.

The NMDP seeks to build on previous programs funded by the Navy with special attention to those recruitment strategies and programs that have proven to be most successful and appear to provide the greatest opportunity for replication in other areas.

A Request for Proposal (RFP) was let in the spring of 1995 to community based organizations and donor centers in selected geographic areas. The response was very low and determined not to be competitive. The Navy was asked to allow NMDP to redefine the use of the funds for this program for the following:

- The RFP for the African American pilot project was revised and let to targeted community groups in the Chicago/Cook County, IL area on March 28, 1996. On April 9, 1996, a pre-proposal conference was held in Chicago for the targeted community groups. May 3 was the deadline for interested community groups to submit their proposal. We did not receive any proposals from the targeted community groups to participate in the African American pilot project. NMDP is currently reviewing and evaluating the RFP\Proposal process.

- Provide an opportunity for existing NMDP recruitment groups(8) that receive fee-for-service reimbursement and focus on minority recruitment to receive one recruitment staff position. The RFP was let in June 1996 with a response deadline of July 19, 1996.
- Provide staff support for the American Indian/Alaska Native initiative, especially for health professional education about unrelated marrow transplantation.
- Fund a project to institutionalize marrow donor education and recruitment in selected federal agency headquarters and regional offices.
- Provide support for local minority recruitment and retention programs in targeted groups that would be open to any donor center or recruitment group. Funds could be used for staffing or special events to support local ethnic-specific campaigns.
- Fund continued media relations and recruitment through Black Expo USA events in 1996.

These programs will be initiated within the next couple of months.

4. Community HLA-A,B Matching Funds

Community matching funds are requested by a donor center, by completing a Recruitment Drive Funding Request, on behalf of a community group undertaking a recruitment effort. Funds are available on a first come-first served basis and are limited to a cumulative total of \$25,000 per community group. The grant will pay for one half the actual cost associated with the testing, phlebotomy and shipping, up to a \$31.25 maximum, per sample. On occasion more than one community group will work together on a recruitment event.

Attachment 7 provides detailed information on all community matching funded drives by donor center.

5. Donor Center Waiting List Funds

Waiting list funds will be available to donor center to cover the cost of testing Caucasian donors who are unable to pay for their individual test and are unable to join the program in any other way. The funds will be accessed by submitting a Recruitment Drive Funding Request.

D. Public education and Awareness

1. Physician Histocompatibility and Transplant Center Coordinator Education

The second annual Transplant Center Coordinator Spring Meeting was held April 29-30, 1996 in St. Petersburg, Florida. St. Petersburg is the home of All Children's Hospital (an NMDP transplant center) and Dr. Robert Good (NMDP Board member and first physician to perform an allogeneic bone marrow transplant in 1968). Eighty people attended this meeting, representing two-thirds of the domestic transplant centers and several international centers and registries. The meeting on Monday, April 29 was held at the All Children's Hospital Education Center and the meeting on the 30th was held at the St. Petersburg Hilton. A majority of the meeting (and the most popular and useful sessions according to attendee evaluations) focused on Search Strategies that could be used by transplant centers to identify unrelated donors. Specifically covered were HLA Antigens that are frequently mistyped, HLA linkages, distribution of DRB1 alleles and haplotype frequencies in the major ethnic categories, and challenging patient case studies. The format of this meeting allows transplant center coordinators to interact more closely with their peers than the larger, more broad format of the Council Meeting. Coordinators hope that this continues to be funded on an annual basis due to the increased operational knowledge they gain from comparing and contrasting their programs with others.

2. Registry-Wide Newsletter

The Marrow Messenger went to print in late June. It will be mailed to volunteers in July. This year's newsletter will have a new page design allowing for more stories and motivational comments from donors. Because of the recent emphasis on new stem cell technologies, stories have been added to help educate volunteers. This newsletter is designed to reconfirm for volunteers their commitment to help save a life. It serves the dual purpose of providing an opportunity to use the returned copies to update the address files.

3. Transplant and Collection Center Newsletter

Transplant Center News is a bimonthly newsletter started in 1995. Articles focus strictly on topics pertinent to day-to-day activities of transplant center coordinators. A recent addition to the newsletter is to feature one NMDP department in each issue. This will help coordinators become better acquainted with the coordinating center and the services coordinating center staff can provide to the network.

4. Physician Education

Planning is underway for the NMDP's participation in the "6th Biennial Symposium On Minorities, The Medically Underserved & Cancer." The Symposium, scheduled for April 1997, is designed to share the latest scientific information and raise awareness among those serving minority and medically underserved communities of the urgent need for cancer awareness, detection and treatment.

The NMDP is involved in the "Executive Leadership" group which plans conference activities, will be participating in general sessions, hosting a workshop, and displaying an educational exhibit.

5. Patient Education

Work continues on several projects for the Office of Patient Advocacy. 1) We have received the digital version of the new patient video "Challenge of a Lifetime." The video is being reviewed and edited. 2) The booklet "UBMT: A Patient's Guide" has gone to print. 3) The draft of the insurance guide has been revised and is out for review.

6. NMDP Speaker Support Materials

One of the ways the NMDP plans to increase awareness of its programs and the viability of unrelated allogeneic transplants is to develop a standard set of slides that can be used for several purposes, including physician grand rounds. The slides will include general information about the NMDP and key Registry and clinical outcomes. The slides will be ready for distribution in mid-September.

7. Targeted Group Awareness and Education Activities

C&E staff continues to create new opportunities to generate visibility in the media and help our local centers increase the potential success of events and activities designed to raise awareness of the need for volunteers, particularly minorities, to join the Registry.

Major media hits for the month of June included: *The Today Show*, *Day & Date*, *McCalls*, *USA Today*, *CNN*, *Detroit Free Press*, and *MTV*.

Throughout the month of June staff worked with Coca Cola and media outlets across the country in a variety of cities on coverage of donors, patients and recipients participating in the Olympic Torch Run. We received coverage in about a dozen communities. Additionally, two of the stories were picked up by the network television newscasts.

C&E staff was quickly moved to action to assist a local donor center when Darius Rucker, an African American artist who is the lead singer for the popular music group Hootie & the Blowfish, announced that he

wanted to hold a national news conference the next day when he joined the NMDP Registry. Coverage of the event and a public service announcement taped by Rucker received significant visibility in the media. We also received 2,000 calls to the 800 number resulting from the publicity.

Through its sponsorship and participation in the National Association of Hispanic Journalists conference in Chicago, the NMDP was able to: provide visibility for the Hispanic Campaign, demonstrate the NMDP's home page on the World Wide Web, distribute materials to reporters, establish contacts and future interview opportunities with major media outlets such as *Latino USA*, *Latina*, *Telemundo*, *WGN Radio*, and several other large newspaper outlets.

C&E staff also participated in the Native American Journalists Association meeting in Bangor, Maine. The conference newspaper published a story about the NMDP launching its American Indian/Alaska Native Initiative. A commitment was reached with American Indian Radio on Satellite (AIROS) which has programming on 39 American Indian radio stations in 15 states. AIROS will run public service announcements for the NMDP during November, which is Native American Heritage Month. Contacts were made with mainstream and American Indian reporters.

Working in collaboration with the donor services department, C&E staff provided communications and media relations support for the 15 centers that participated in education and recruitment initiatives in conjunction with the National Juneteenth celebration. Activities also were promoted on the NMDP's web site.

Early reports indicate visits to the NMDP's newly redesigned home page on the World Wide Web are increasing. The new site offers information about patient assistance, international ties, minority initiatives, and an expanded news section. It also is more esthetically appealing and dynamic.

8. Integrated Communications for Targeted Campaigns

NMDP uses communications firms with cultural experience and resources specific to each targeted audience. The expertise of C&E and the firms enables development of culturally sensitive, campaign-specific materials in languages key to our audiences. These materials are tested among representative groups for cultural sensitivity and effectiveness. Additionally, the firms provide a resource with non-English speaking minority media.

Communications materials for the American Indian/Alaska Native Initiative are going to print. They were developed with assistance from Red Eagle Productions, an American Indian-owned firm based out of

Washington, DC. The firm was chosen from a field of seven American Indian-owned firms that received the NMDP's Request For Proposal.

Our goal is to have the primary materials ready for a July 1996 initiative launch. The theme and logo are based on the medicine wheel, which is a powerful symbol in American Indian/Alaska Native life. The theme is "Keep The Circle Strong." To make the logo as universally appealing as possible, various symbols significant to tribes and nations across the country have been incorporated into the medicine wheel. A group of American Indian network staff and committee members from across the country participated in the materials review process.

9. Phase II National Public Service Campaign

The fifth public service announcement was distributed to the second 10 markets. As of September, this campaign will have completed its run in all 20 markets.

E. Long Term Blood Storage Alternative Investigations

A contract (#6030) with Coriell Institute for Medical Research was issued on March 1, 1995, to evaluate alternative methodologies of long term whole blood storage and to compare them with the current protocol of freezing whole blood in 1 ml aliquots. Based on less than satisfactory performance, this contract was terminated for convenience of the NMDP on November 7, 1995. An amount of \$6,989 was made to Coriell as complete payment for services performed. The remaining funds will be reallocated at a future date to further the overall objectives of the grant.

F. Program Administration

During this period, funds were expended from this category to cover the salary, office rental, and related expenses of the Administrator, Navy Funded Programs. Attachment 1 contains a reallocation recapitulation schedule through the end of June 1996. This schedule reflects all approved reallocations. During this period a reallocation request for \$2,300,000 for DNA HLA DR typing, and feasibility study for Class I DNA testing was approved. One allocation request for \$547,141 for Community HLA-A, B matching funds remains outstanding.

III. SUMMARY

Navy grant # N00014-95-1-0055 continues to support NMDP projects which decrease the time and expense required for patients to find compatible unrelated donors, while funding research designed to increase understanding of the role of HLA matching on patient outcome post-transplant. Many of the activities described in this report represent continuations of successful projects implemented previously. Others are new projects which were carefully designed, often with input from outside consultants with specialized expertise, to promote the goals of this grant.

ATTACHMENT 1

**\$45,000,000 NAVY GRANT
SUMMARY OF ACTIVITIES**

NAVY GRANT N00014-95-1-0055 REALLOCATIONS REPORT

| Category | Original Grant Budget | Added by Modification P00001 | TOTAL MODIFIED GRANT AMOUNT | Reallocation * | | | | | Total Reallocated Grant Amount |
|--------------------------------------------------------------------------|--------------------------|------------------------------------|--------------------------------|----------------|----------------|----------------|----------------|---------------|-----------------------------------------|
| | | | | #1 02/14/95 | #2 06/06/95 | #3 03/06/96 | #4 05/10/96 | #5 06/5/96 | |
| 1 Scientific Studies of Allele-Specific Typing of Donor/Recipient Sample | \$3,100,000 | \$1,450,000 | \$4,550,000 | | | | | | \$4,550,000 |
| 2 NMDP HLA Match Vs. Outcome Research | \$500,000 | \$0 | \$500,000 | | | | | | \$500,000 |
| 3 Histocompatibility Laboratories for DNA HLA DR Typing | \$6,700,000 | \$5,300,000 | \$12,000,000 | | | | | \$2,000,000 | \$14,000,000 |
| 4 Histocompatibility Laboratories for HLA-A, B & DR Typing | \$2,300,000 | \$500,000 | \$2,800,000 | | | | | (\$2,300,000) | \$500,000 |
| 5 NMDP Staff Immunogeneticist | \$200,000 | \$200,000 | \$400,000 | | | | | | \$82,320 |
| 6 Repository | | \$700,000 | \$700,000 | (\$96,375) | (\$34,680) | | (\$283,000) | | \$603,625 |
| 7 Feasibility for Confirmatory Class I DNA Testing | \$0 | \$300,000 | \$300,000 | | | | | \$300,000 | \$600,000 |
| 8 Contract Laboratory for Reference/Pre-Test Cells | \$0 | \$100,000 | \$100,000 | | | | | | \$100,000 |
| 9 Class I Sequencing Database | \$0 | \$100,000 | \$100,000 | | | | | | \$100,000 |
| 10 Donor Center Hardware/Software | \$1,000,000 | \$1,000,000 | \$2,000,000 | | | | | | \$2,000,000 |
| 11 Facilitation of Rapid Communication with Foreign Registries | \$500,000 | \$0 | \$500,000 | | | | | | \$500,000 |
| 12 Probability of A, B, DR Identical Matches | \$50,000 | \$0 | \$50,000 | | | | | | \$50,000 |
| 13 Revision of Search Algorithm | \$200,000 | \$0 | \$200,000 | | | | | | \$200,000 |
| 14 Data Management for the International Consortium on the Effects of R | \$250,000 | \$150,000 | \$400,000 | | | | | | \$400,000 |
| 15 HR/HW Search | \$0 | \$0 | \$0 | | \$34,680 | | | | \$34,680 |
| 16 Resolution of Discrepant HLA Typing on Donors | \$0 | \$75,000 | \$75,000 | | | | | | \$75,000 |
| 17 Donor HLA Override Modifications | \$0 | \$75,000 | \$75,000 | | | | | | \$75,000 |
| 18 Enhancements to BMDW Processing | \$0 | \$100,000 | \$100,000 | | | (\$100,000) | | | \$0 |
| 19 Cord Blood Repository Software | \$0 | \$150,000 | \$150,000 | | | (\$150,000) | | | \$0 |
| 20 Transplant Center Software | \$0 | \$100,000 | \$100,000 | | | (\$100,000) | | | \$0 |
| 21 Modify Repository Software | \$0 | \$75,000 | \$75,000 | | | | | | \$75,000 |
| 22 Minority HLA-A, B Typing | \$4,400,000 | \$5,750,000 | \$10,150,000 | | | | | | \$10,150,000 |
| 23 National Minority Campaigns | \$250,000 | \$750,000 | \$1,000,000 | | | | | | \$1,000,000 |
| 24 Pilot Recruitment/Retention Program | \$1,000,000 | \$500,000 | \$1,500,000 | | | | | | \$1,500,000 |
| 25 Community HLA-A, B Matching Funds | \$2,100,000 | \$2,300,000 | \$4,400,000 | | | | | | \$4,400,000 |
| 26 Donor Center Waiting Lists | \$450,000 | \$103,000 | \$553,000 | | | | | | \$553,000 |
| 27 Physician Histocompatibility and Transplant Center Coordinator Educa | \$100,000 | \$160,000 | \$260,000 | | | | | | \$260,000 |
| 28 Registry Wide Newsletter | \$400,000 | \$650,000 | \$1,050,000 | | | | | | \$1,050,000 |
| 29 Transplant and Collection Center Newsletter | \$20,000 | \$0 | \$20,000 | | | | | | \$20,000 |
| 30 Physician Education | \$30,000 | \$0 | \$30,000 | | | | | | \$30,000 |
| 31 Patient Education | \$30,000 | \$25,000 | \$55,000 | | | | | | \$55,000 |
| 32 NMDP Speaker Support Materials | \$20,000 | \$0 | \$20,000 | | | | | | \$20,000 |
| 33 Targeted Group Awareness and Education Activities | \$150,000 | \$0 | \$150,000 | | | | \$372,000 | | \$522,000 |
| 34 Integrated Communications for Targeted Campaigns | \$550,000 | \$0 | \$550,000 | | | | | | \$550,000 |
| 35 Phase II National Public Service Campaign | \$0 | \$50,000 | \$50,000 | | | | | | \$50,000 |
| 36 Long Term Blood Storage Alternative Investigations | \$0 | \$0 | \$0 | \$96,375 | | | (\$89,000) | | \$7,375 |
| 37 Program Administration | \$300,000 | \$337,000 | \$637,000 | | | \$350,000 | | | \$637,000 |
| 38 Alternative Blood Products Software | | | | | | | | | \$350,000 |
| | \$24,600,000 | \$21,000,000 | \$45,600,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$45,600,000 |

7/26/96

9:49 AM

* Date is the date of ONR Contracting Officer Written Approval to the NMDP

ATTACHMENT 2

**HIGH RESOLUTION CLASS I DNA
TYPING LABORATORIES**

CUMULATIVE DISTRIBUTION OF TYPING RESULTS
BY LOCUS
TOTAL FOR ALL LABS
June 30, 1996

| LOCUS | RQSTD # | RESULTS COMPLETED | | RESULTS OPEN | | RESULTS PARTLY COMPLETED | | RESULTS NOT COMPLETED | | RESULTS NO MAKE | |
|--------------|-------------|----------------------|-------------|--------------|-------------|--------------------------------|------------|--------------------------|-------------|--------------------|------------|
| | | # | % | # | % | # | % | # | % | # | % |
| A | 3000 | 695 | 23.2 | 1611 | 53.7 | 92 | 3.1 | 1703 | 56.8 | 0 | 0.0 |
| B | 3000 | 779 | 26.0 | 937 | 31.2 | 84 | 2.8 | 1021 | 34.0 | 0 | 0.0 |
| C | 3000 | 615 | 20.5 | 1181 | 39.4 | 0 | 0.0 | 1181 | 39.4 | 0 | 0.0 |
| TOTAL | 9000 | 2089 | 23.2 | 3729 | 41.4 | 176 | 2.0 | 3905 | 43.4 | 0 | 0.0 |

RQSTD = # of IDs that will be typed at a given locus

COMPLETED = # of IDs where 2 valid results have been received

OPEN = # of IDs where no results have been received

PARTLY COMPLETED = # of IDs where 1 valid result has been received but the second result has not been received

NOT COMPLETED = Sum of OPEN and PARTLY COMPLETE

NO MAKE = # of IDs where a no make has been received at one or both alleles

ATTACHMENT 3

(A) DONOR TYPINGS PERFORMED

(B) DONORS SAMPLES STORED AND SHIPPED

NMDP DNA PROJECT**DONOR TYPINGS PERFORMED****June 1, 1996 - June 30, 1996**

| | |
|------------|--------|
| PRIORITY 1 | 2,279 |
| PRIORITY 2 | 12,415 |
| PRIORITY 3 | 705 |
| <hr/> | |
| TOTAL | 15,399 |

NMDP DNA PROJECT**DONOR SAMPLES STORED****June 1, 1996 - June 30, 1996**

| | |
|----------------|--------|
| ARC - NATIONAL | 23,198 |
| PITTSBURGH | 15,791 |
| <hr/> | |
| TOTAL | 38,989 |

DONOR SAMPLES SHIPPED**June 1, 1996 - June 30, 1996**

| | |
|----------------|--------|
| ARC - NATIONAL | 7,000 |
| PITTSBURGH | 8,193 |
| <hr/> | |
| TOTAL | 15,193 |

ATTACHMENT 4

MINORITY RECRUITMENT PROGRAMS

MINORITY RECRUITMENT PROGRAMS

As of June 30, 1996

| TAB | PROGRAM | START DATE | GOAL | #S TO DATE | LAST MONTH |
|-----|-----------------------------------------------------------------------------------------|---------------|---------------------|---------------|---------------|
| 1. | African American (CAM) | 6/93 | 35,300 | ENDED | 39,633 |
| 2. | Asian/Pacific Islander (CAM) | 3/94 | 35,600 | 35,169 | 34,707 |
| 3. | Hispanic/Latino (CAM) | 5/95 | 37,688 | 19,491 | 17,328 |
| 4. | American Indian (CAM) | 05/96 | 9,000 | N/A | N/A |
| 5. | AIRD (SP) | 12/94 | 1,000 (annually) | 2,481 | 2,259 |
| 6. | National Organizations (CCI) <i>Goals will vary per Partnership arrangement.</i> | 3/95 | TBD | 3,053 | 2,755 |
| 7. | BLACK EXPO, USA (CCI) | 3/96 | 1,810 | 1,495 | 1,262 |

Legend

CAM = Campaign
 CCI = Coordinating Center Initiative(s)
 SP = Special Project

ATTACHMENT 5

**ASIAN PACIFIC ISLANDER
DONOR RECRUITMENT CAMPAIGN**



TO: Juanamarie Dixon
Assistant Director, Minority Recruitment

PERSON REPORTING: May Ma **DATE:** July 24, 1996

SUBJECT: June 1996 Report on Asian Pacific Islander Donor Recruitment Campaign

Total on registry = 126,254 (as of June 30, 1996)

Total API transplants = 73

| MARKETS | START DATE END DATE | CAMPAIGN GOAL FOR 2 YEARS/MONTHLY GOAL | DONORS RECRUITED THIS PERIOD | TOTAL NUMBERS RECRUITED | AVERAGE MONTHLY RECRUITED | % CAMPAIGN GOAL REACHED |
|----------------------------------------------------------|---------------------------|-------------------------------------------------|---------------------------------------|-------------------------------|---------------------------------|----------------------------------|
| San Francisco 004, 005, 008, 009, 066, 068, 070 | Mar '94 (Feb '96) | 8,000/333 | END | 9,110 | 380 | 114% |
| Los Angeles 002, 068, 070 | Mar '94 (Apr '96) | 12,000/500 | END | 14,400 | 600 | 120% |
| New York 060 (plus other DC used) | July '94 (June '96) | 8,000/333 | 322 | 5,779 | 240 | 72% |
| Seattle 081 | Sep '94* (Aug '96) | 3,600/150 | 140 | 1,885 | 86 | 52% |
| Hawaii 054 | Oct '94* (Dec '95) | 4,000/222 | END | 3,652 | 192 | 91% |
| Other Activities | Mar '94 | | | 343 | | |
| TOTAL | Mar '94 (Aug '96) | 35,600 | | 35,169 | | 97% |

| SPECIAL EVENTS | DATE | LOCATION | DONOR GOAL | ACTUAL RECRUITED |
|----------------|------|----------|------------|------------------|
| None | | | | |

| |
|------------------|
| COMMENTS: |
| None. |

ATTACHMENT 6

REPORT OF HISPANICS GIVING HOPE CAMPAIGN



TO: Juanamarie Dixon
Assistant Director, Minority Recruitment

PERSON REPORTING: Luis Silva **DATE:** July 23, 1996

SUBJECT: June Report on Hispanics Giving Hope Campaign

Total on registry = 151,063 (as of June 30, 1996)

| MARKETS | START DATE | CAMPAIGN GOAL FOR 2 YEARS/MONTHLY GOAL | DONORS RECRUITED THIS PERIOD | TOTAL NUMBERS RECRUITED | AVERAGE MONTHLY RECRUITED | % CAMPAIGN GOAL REACHED |
|---------------------|------------|----------------------------------------|------------------------------|-------------------------|---------------------------|-------------------------|
| Los Angeles DC# 002 | 1-Aug-95 | 4,500/6,000 500 | 694 | 5,599 | 560 | 53% |
| Dallas DC# 046 | 1-Aug-95 | 1,875/2,500 208 | 0 | 891 | 89 | 20% |
| Fort Worth DC# 101 | 1-Aug-95 | 1,875/2,500 208 | 381 | 3,881 | 388 | 89% |
| Houston DC# 091 | 1-Aug-95 | 1,875/2,500 208 | 154 | 1,697 | 170 | 39% |
| San Antonio DC# 102 | 1-Aug-95 | 3,750/5,000 417 | 670 | 5,138 | 514 | 59% |
| Puerto Rico DC# 109 | 1-Sept-95 | 1,665/2,500 208 | 264 | 2,285 | 254 | 55% |
| TOTAL | 1-Aug-95 | 16,688/21,000 1,540/1,750 | 2,163 | 19,491 | 1,975 | 53% |

| SPECIAL EVENTS | DATE | LOCATION | DONOR GOAL | ACTUAL RECRUITED |
|----------------|------|----------|------------|------------------|
| None | | | | |

| COMMENTS: |
|-----------|
| None. |

ATTACHMENT 7

COMMUNITY MATCHING BY DONOR CENTER

7/24/96

NAVY95
COMMITTED/SPENT REPORT
COMMUNITY MATCHING
BY DONOR CENTER
BETWEEN
06/01/96 - 06/30/96

Page 1

| DRIVE NO. | EVENT DATES | SPON | RECR | EVENT CITY/STATE | EVENT LOCATION | Q'TY | COMMITTED AMOUNT | Q'TY | SPENT AMOUNT |
|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|
|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|

DONOR CENTER: (001) Am Red Cross-N Ct Blood Svs

| | | | | | | | | | |
|-----------------------------------|---------------------|-----|--|---------------|-------------------|-----|----------|-----|------------|
| 96060302-001 | 06/03/96 - 06/26/96 | MOZ | | St Paul, MN | Walkins to Ctr | 100 | 2,125.00 | 61 | 1,296.25 * |
| 96060404-001 | 06/04/96 - 06/04/96 | CSZ | | Chaska, MN | Chaska H.S. | 50 | 1,125.00 | 50 | 1,125.00 * |
| 96060509-001 | 06/05/96 - 06/05/96 | RCZ | | St Paul, MN | St Odilia Cath Ch | 100 | 2,250.00 | | |
| 96061509-001 | 06/15/96 - 06/15/96 | MOZ | | Cambridge, MN | Memorial Hospital | 235 | 5,287.50 | 86 | 1,935.00 * |
| Total Am Red Cross-N Ct Blood Svs | | | | | | 100 | 2,250.00 | 197 | 4,356.25 |

DONOR CENTER: (002) Am Red Cross-So CA Region

| | | | | | | | | | |
|---------------------------------|---------------------|-----|--|-------------------|----------------------|-------|-----------|-----|-------------|
| 96060111-002 | 06/01/96 - 06/01/96 | PFZ | | Thousand Oaks, CA | La Rue/Oaks Mall | 1,100 | 24,750.00 | 632 | 14,220.00 * |
| 96060149-002 | 06/01/96 - 06/01/96 | CBZ | | Irvine, CA | National Sports Gril | 150 | 3,375.00 | 37 | 832.50 * |
| 96060219-002 | 06/02/96 - 06/02/96 | LSA | | Glendale, CA | KVEA Channel 52 | 5 | 112.50 | | |
| 96060901-002 | 06/09/96 - 06/09/96 | PFZ | | Santa Barbara, CA | Army Reserve Ctr. | 425 | 9,562.50 | | |
| 96060902-002 | 06/09/96 - 06/09/96 | RCZ | | Burbank, CA | St Francis Xavier | 50 | 1,125.00 | | |
| 96060916-002 | 06/09/96 - 06/09/96 | LSA | | Santa Ana, CA | St. Jos. Cat. Church | 14 | 315.00 | 14 | 315.00 * |
| 96061003-002 | 06/10/96 - 06/10/96 | RCZ | | Reseda, CA | First Bap. Ch. of Re | 40 | 900.00 | 24 | 540.00 * |
| Total Am Red Cross-So CA Region | | | | | | 480 | 10,800.00 | 707 | 15,907.50 |

Notes:

- (1) "*" indicates completed drive
(2) Blank Numbers indicate nothing has been reported.

7/24/96

NAVY95
COMMITTED/SPENT REPORT
COMMUNITY MATCHING
BY DONOR CENTER
BETWEEN
06/01/96 - 06/30/96

Page 2

| DRIVE NO. | EVENT DATES | SPON | RECR | EVENT CITY/STATE | EVENT LOCATION | Q'TY | COMMITTED AMOUNT | Q'TY | SPENT AMOUNT |
|---------------------------------------------------|---------------------|------|------|--------------------|----------------------|------|------------------|------|--------------|
| DONOR CENTER: (004) Stanford Med School Blood Ctr | | | | | | | | | |
| 96060903-004 | 06/09/96 - 06/09/96 | BDZ | | San Jose, CA | Special FX Salon | 50 | 1,125.00 | 48 | 1,080.00 * |
| | | | | | | | | | |
| Total Stanford Med School Blood Ctr | | | | | | 0 | 0.00 | 48 | 1,080.00 |
| DONOR CENTER: (005) Sacramento Med Fdtn Blood Ctr | | | | | | | | | |
| 96060143-005 | 06/01/96 - 06/30/96 | MOZ | | Sacramento, CA | Walk- Ins to Center | 60 | 1,725.00 | | |
| 96060906-005 | 06/09/96 - 06/09/96 | RCZ | | Rancho Cordova, CA | Capitol Chr Ctr | 200 | 5,750.00 | 201 | 5,778.75 * |
| 96061802-005 | 06/18/96 - 06/18/96 | BDZ | | Whiskey Town, CA | Whiskey Town NP Crew | 40 | 1,150.00 | 4 | 115.00 * |
| 96062003-005 | 06/20/96 - 06/20/96 | CBZ | | Roseville, CA | Del Webb Corp. | 20 | 575.00 | 19 | 546.25 * |
| 96062904-005 | 06/29/96 - 06/29/96 | SOZ | | Hanford, CA | Hanford Sen. Vet. Ct | 125 | 3,593.75 | | |
| Total Sacramento Med Fdtn Blood Ctr | | | | | | 185 | 5,318.75 | 224 | 6,440.00 |
| DONOR CENTER: (006) Blood Bank Of San Bernardino | | | | | | | | | |
| 96060908-006 | 06/09/96 - 06/09/96 | PFZ | | Riverside, CA | Victoria Comm. Churc | 70 | 1,575.00 | 119 | 2,677.50 * |
| 96061108-006 | 06/11/96 - 06/11/96 | PFZ | | Barstow, CA | Barstow Comm. Hospit | 30 | 675.00 | 41 | 922.50 * |
| 96062310-006 | 06/23/96 - 06/23/96 | SOZ | | Hesperia, CA | Rotary Clubs | 170 | 3,825.00 | 126 | 2,835.00 * |

Notes:

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|--------------------------------------------------|---------------------|------|------|------------------|----------------------|-------|------------------|-------|--------------|
| DONOR CENTER: (006) Blood Bank Of San Bernardino | | | | | | | | | |
| ----- | | | | | | | | | |
| Total Blood Bank Of San Bernardino | | | | | | | | | |
| | | | | | | 0 | 0.00 | 286 | 6,435.00 |
| DONOR CENTER: (009) Am Red Cross-No CA Region | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060151-009 | 06/01/96 - 06/30/96 | MOZ | | San Jose, CA | Walk-Ins to Center | 50 | 1,125.00 | 46 | 1,035.00 * |
| Total Am Red Cross-No CA Region | | | | | | | | | |
| | | | | | | 0 | 0.00 | 46 | 1,035.00 |
| DONOR CENTER: (010) New England Marrow Donor Prg | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060301-010 | 06/03/96 - 06/03/96 | PFZ | | Madison, CT | Mad. 1st Congreg. Ch | 1,000 | 22,500.00 | 1,398 | 31,455.00 * |
| 96060804-010 | 06/08/96 - 06/08/96 | MOZ | | Stamford, CT | Stamford Hospital | 22 | 495.00 | 26 | 585.00 * |
| 96060819-010 | 06/08/96 - 06/08/96 | PFZ | | Greenwich, CT | Brunswick Academy | 160 | 3,600.00 | 307 | 6,907.50 * |
| 96061105-010 | 06/11/96 - 06/11/96 | CSZ | | Danbury, CT | Danbury High School | 25 | 562.50 | 26 | 585.00 * |
| 96061302-010 | 06/13/96 - 06/13/96 | MOZ | | Stamford, CT | Stamford Hlth Dept | 50 | 1,125.00 | 8 | 180.00 * |
| 96061501-010 | 06/15/96 - 06/15/96 | SOZ | | Manchester, CT | Knights of Columbus | 400 | 9,000.00 | 219 | 4,927.50 * |
| Total New England Marrow Donor Prg | | | | | | | | | |
| | | | | | | 0 | 0.00 | 1,984 | 44,640.00 |

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| DRIVE NO. | EVENT DATES | SPON | RECR | EVENT CITY/STATE | EVENT LOCATION | Q'TY | COMMITTED AMOUNT | Q'TY | SPENT AMOUNT |
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DONOR CENTER: (015) Am Red Cross-So Region

| | | | | | | | | | |
|------------------------------|---------------------|-----|--|---------------|----------------------|-----|----------|-----|------------|
| 96060135-015 | 06/01/96 - 06/01/96 | PFZ | | Covington, GA | Covington Fire Stati | 100 | 2,250.00 | 70 | 1,575.00 * |
| 96060215-015 | 06/02/96 - 06/02/96 | PFZ | | Marietta, GA | Hightower Trail MS | 100 | 2,250.00 | 71 | 1,597.50 * |
| 96060707-015 | 06/07/96 - 06/07/96 | CBZ | | Norcross, GA | Preferred Netwk Inc | 50 | 1,125.00 | 118 | 2,655.00 * |
| 96060918-015 | 06/09/96 - 06/09/96 | RCZ | | Dunwoody, GA | All Saint's Cath Ch | 250 | 5,625.00 | 236 | 5,310.00 * |
| 96061405-015 | 06/14/96 - 06/14/96 | BDZ | | Atlanta, GA | Piedmont Hosp | 50 | 1,125.00 | 51 | 1,147.50 * |
| Total Am Red Cross-So Region | | | | | | 0 | 0.00 | 546 | 12,285.00 |

DONOR CENTER: (018) Ct IN Regl Blood Ctr

| | | | | | | | | | |
|----------------------------|---------------------|-----|--|------------------|----------------------|----|----------|---|------|
| 96060123-018 | 06/01/96 - 06/30/96 | MOZ | | Indianapolis, IN | Walk-Ins to Center | 40 | 900.00 | | |
| 96060303-018 | 06/03/96 - 06/03/96 | CBZ | | Indianapolis, IN | Allied Signal | 15 | 337.50 | | |
| 96060820-018 | 06/08/96 - 06/08/96 | RCZ | | Indianapolis, IN | Mt. Zion Bap. Church | 5 | 112.50 | | |
| 96062209-018 | 06/22/96 - 06/22/96 | RCZ | | Indianapolis, IN | New Bethel Bap.Ch. | 5 | 112.50 | | |
| Total Ct IN Regl Blood Ctr | | | | | | 65 | 1,462.50 | 0 | 0.00 |

DONOR CENTER: (022) Memorial Bld Ctr of Mpls

| | | | | | | | | | |
|--------------|---------------------|-----|--|-----------------|-------------------|-----|----------|-----|------------|
| 96060153-022 | 06/01/96 - 06/01/96 | PFZ | | Bloomington, MN | Shanty Town Grill | 200 | 4,500.00 | 160 | 3,600.00 * |
|--------------|---------------------|-----|--|-----------------|-------------------|-----|----------|-----|------------|

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| DONOR CENTER: (022) Memorial Bld Ctr of Mpls | | | | | | | | | |
| ----- | | | | | | | | | |
| Total Memorial Bld Ctr of Mpls | | | | | | | | | |
| ----- | | | | | | | | | |
| DONOR CENTER: (025) NIH Marrow Donor Center | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060121-025 | 06/01/96 - 06/01/96 | CSZ | | Bethesda, MD | Walter Johnson HS | 150 | 3,375.00 | 59 | 1,327.50 * |
| Total NIH Marrow Donor Center | | | | | | | | | |
| ----- | | | | | | | | | |
| DONOR CENTER: (028) Am Red Cross-SE Michigan Reg | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060130-028 | 06/01/96 - 06/01/96 | SOZ | | Yale, MI | Yale V.F.W. | 100 | 2,250.00 | 136 | 3,060.00 * |
| 96060220-028 | 06/02/96 - 06/02/96 | PFZ | | West Bloomfield, MI | F&F of Lauren Cone | 1,000 | 22,500.00 | 486 | 10,935.00 * |
| 96060825-028 | 06/08/96 - 06/08/96 | RCZ | | South Lyon, MI | So. Lyon Ch. of Chri | 200 | 4,500.00 | 121 | 2,722.50 * |
| 96061002-028 | 06/10/96 - 06/12/96 | SOZ | | Detroit, MI | Comm Wkrs of Am | 100 | 2,250.00 | 48 | 1,080.00 * |
| Total Am Red Cross-SE Michigan Reg | | | | | | | | | |
| ----- | | | | | | | | | |
| 0 0.00 791 17,797.50 | | | | | | | | | |

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| DRIVE NO. | EVENT DATES | SPON | RECR | EVENT CITY/STATE | EVENT LOCATION | Q'TY | COMMITTED AMOUNT | Q'TY | SPENT AMOUNT |
|--------------------------------------------------|---------------------|------|------|------------------|--------------------|------|------------------|------|--------------|
| DONOR CENTER: (030) Am Red Cross-Great Lakes Reg | | | | | | | | | |
| 96060131-030 | 06/01/96 - 06/30/96 | MOZ | | Lansing, MI | Walk-Ins to Center | 30 | 600.00 | | |
| 96060703-030 | 06/07/96 - 06/07/96 | SOZ | | Alphena, MI | My Friends Care | 350 | 7,525.00 | 79 | 1,698.50 * |
| 96060812-030 | 06/08/96 - 06/08/96 | RCZ | | Westbranch, MI | 1st Meth Church | 200 | 4,300.00 | 36 | 774.00 * |
| 96062002-030 | 06/20/96 - 06/20/96 | RCZ | | Flint, MI | Assum Gk Orth Ch | 750 | 16,125.00 | 57 | 1,225.50 * |
| Total Am Red Cross-Great Lakes Reg | | | | | | 30 | 600.00 | 172 | 3,698.00 |
| DONOR CENTER: (032) Iowa Marrow Donor Program | | | | | | | | | |
| 96060813-032 | 06/08/96 - 06/08/96 | PFZ | | Emmetsburg, IA | Emmetsburg Comm | 10 | 225.00 | 50 | 1,125.00 * |
| Total Iowa Marrow Donor Program | | | | | | 0 | 0.00 | 50 | 1,125.00 |
| DONOR CENTER: (033) Am Red Cross-Midwest Region | | | | | | | | | |
| 96061203-033 | 06/12/96 - 06/12/96 | LSA | | Omaha, NE | St. Josephs Ctr. | 120 | 2,700.00 | 98 | 2,205.00 * |
| 96062708-033 | 06/27/96 - 06/28/96 | BDZ | | Omaha, NE | Physicians Mutual | 60 | 1,350.00 | 41 | 922.50 * |
| Total Am Red Cross-Midwest Region | | | | | | 0 | 0.00 | 139 | 3,127.50 |

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| DRIVE NO. | EVENT DATES | SPON | RECR | EVENT CITY/STATE | EVENT LOCATION | Q'TY | COMMITTED AMOUNT | Q'TY | SPENT AMOUNT |
|------------------------------------------------------|---------------------|------|------|----------------------|----------------------|------|------------------|------|--------------|
| DONOR CENTER: (036) Am Red Cross-Syracuse NY Bld Ctr | | | | | | | | | |
| 96060105-036 | 06/01/96 - 06/30/96 | S02 | BM4 | Albany, NY | Bone Marrow Res. Fou | 12 | 270.00 | | |
| 96060106-036 | 06/01/96 - 06/01/96 | S02 | BM4 | Schnectady, NY | Carver Community Ctr | 30 | 675.00 | 2 | 45.00 * |
| 96060142-036 | 06/01/96 - 06/30/96 | BD2 | | Syracuse, NY | Walk-Ins to Center | 12 | 270.00 | 21 | 472.50 * |
| 96060402-036 | 06/04/96 - 06/04/96 | CB2 | BM4 | Albany, NY | NYS Dept of Transp | 50 | 1,125.00 | 28 | 630.00 * |
| 96060511-036 | 06/05/96 - 06/05/96 | CB2 | BM4 | Poughkeepsie, NY | NYS Dept. of Trans. | 75 | 1,687.50 | 79 | 1,777.50 * |
| 96060805-036 | 06/08/96 - 06/08/96 | S02 | BM4 | South Glen Falls, NY | Knights of Columbus | 150 | 3,375.00 | 43 | 967.50 * |
| 96060817-036 | 06/08/96 - 06/08/96 | CB2 | BM4 | Albany, NY | Albany Boys & Girls | 30 | 675.00 | 12 | 270.00 * |
| 96060920-036 | 06/09/96 - 06/09/96 | LSA | | Oswego, NY | Neuman Center | 95 | 2,137.50 | 167 | 3,757.50 * |
| 96062905-036 | 06/29/96 - 06/29/96 | FS2 | | Old Forge, NY | Xi Gamma Iota | 100 | 2,250.00 | 23 | 517.50 * |
| Total Am Red Cross-Syracuse NY Bld Ctr | | | | | | 12 | 270.00 | 375 | 8,437.50 |

DONOR CENTER: (037) Am Red Cross-Carolinas Reg

| | | | | | | | | | |
|--------------|---------------------|-----|--|-------------------|----------------------|-------|-----------|-------|-------------|
| 96060410-037 | 06/04/96 - 06/04/96 | PF2 | | Ocean Isle, NC | Susan Munez Drive | 50 | 1,125.00 | 22 | 495.00 * |
| 96060607-037 | 06/06/96 - 06/06/96 | CB2 | | Augusta, SC | Augusta Community | 150 | 3,375.00 | 61 | 1,372.50 * |
| 96061503-037 | 06/15/96 - 06/15/96 | RC2 | | Charlotte, NC | Chapel Christ The Ki | 25 | 562.50 | 8 | 180.00 * |
| 96062204-037 | 06/22/96 - 06/22/96 | RC2 | | Winston-Salem, NC | Pinedale Chr Ch | 100 | 2,250.00 | 71 | 1,597.50 * |
| 96062303-037 | 06/23/96 - 06/23/96 | RC2 | | Burlington, NC | United Ch. of Christ | 50 | 1,125.00 | 41 | 922.50 * |
| 96062701-037 | 06/27/96 - 06/27/96 | BD2 | | Raleigh, NC | Raleigh Community | 1,850 | 41,625.00 | 1,008 | 22,680.00 * |
| 96062704-037 | 06/27/96 - 06/27/96 | CB2 | | Durham, NC | Glaxo RTP | 300 | 6,750.00 | 272 | 6,120.00 * |
| 96062709-037 | 06/27/96 - 06/27/96 | CB2 | | Durham, NC | WRAL Durham/Chapel H | 232 | 5,220.00 | 232 | 5,220.00 * |

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| DRIVE NO. | EVENT DATES | SPON | RECR | EVENT CITY/STATE | EVENT LOCATION | Q'TY | COMMITTED AMOUNT | Q'TY | SPENT AMOUNT |
|-------------------------------------------------|---------------------|------|------|------------------|--------------------|------|------------------|-------|--------------|
| DONOR CENTER: (037) Am Red Cross-Carolinas Reg | | | | | | | | | |
| ----- | | | | | | | | | |
| Total Am Red Cross-Carolinas Reg | | | | | | 0 | 0.00 | 1,715 | 38,587.50 |
| DONOR CENTER: (038) Hoxworth Blood Center | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060104-038 | 06/01/96 - 06/30/96 | BDZ | | Cincinnati, OH | Walk-Ins to Center | 75 | 1,687.50 | 13 | 292.50 * |
| Total Hoxworth Blood Center | | | | | | 0 | 0.00 | 13 | 292.50 |
| DONOR CENTER: (042) Am Red Cross-SW Region | | | | | | | | | |
| ----- | | | | | | | | | |
| 96061524-042 | 06/15/96 - 06/15/96 | MOZ | | Bristow, OK | Bristow Mem Hosp | 75 | 1,687.50 | 14 | 315.00 * |
| 96063006-042 | 06/30/96 - 06/30/96 | CBZ | | Tulsa, OK | Jewish Comm Ctr | 50 | 1,125.00 | | |
| Total Am Red Cross-SW Region | | | | | | 50 | 1,125.00 | 14 | 315.00 |
| DONOR CENTER: (043) Am Red Cross-Pacific NW Reg | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060103-043 | 06/01/96 - 06/30/96 | SOZ | | Portland, OR | American Vets | 300 | 6,750.00 | | |
| 96060118-043 | 06/01/96 - 06/30/96 | SOZ | | Various, OR | Oregon Lions | 300 | 7,125.00 | | |

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| DRIVE NO. | EVENT DATES | SPON | RECR | EVENT CITY/STATE | EVENT LOCATION | Q'TY | COMMITTED AMOUNT | Q'TY | SPENT AMOUNT |
|-----------------------------------------------------|---------------------|------|------|------------------|----------------------|------|------------------|------|--------------|
| DONOR CENTER: (043) Am Red Cross-Pacific NW Reg | | | | | | | | | |
| ----- | | | | | | | | | |
| Total Am Red Cross-Pacific NW Reg | | | | | | | | | |
| | | | | | | 600 | 13,875.00 | 0 | 0.00 |
| DONOR CENTER: (044) Am Red Cross-Johnstown Region | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060139-044 | 06/01/96 - 06/30/96 | BDZ | | Johnstown, PA | Johnstown Region | 25 | 562.50 | | |
| Total Am Red Cross-Johnstown Region | | | | | | | | | |
| | | | | | | 25 | 562.50 | 0 | 0.00 |
| DONOR CENTER: (045) Am Red Cross-Penn Jersey Region | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060152-045 | 06/01/96 - 06/30/96 | MOZ | | Philadelphia, PA | Walk-Ins to Center | 35 | 787.50 | | |
| 96061504-045 | 06/15/96 - 06/15/96 | SOZ | | Harrisburg, PA | St Mary's Church | 75 | 1,687.50 | 49 | 1,102.50 * |
| 96061505-045 | 06/15/96 - 06/15/96 | SOZ | | York, PA | Apple Hill Medical C | 250 | 5,625.00 | 194 | 4,365.00 * |
| 96062601-045 | 06/26/96 - 06/26/96 | CBZ | | Elkton, MD | W.L. Gohr | 190 | 4,275.00 | | |
| 96062703-045 | 06/27/96 - 06/27/96 | CBZ | | Elkton, MD | W.L. Gohr | 190 | 4,275.00 | | |
| Total Am Red Cross-Penn Jersey Region | | | | | | | | | |
| | | | | | | 415 | 9,337.50 | 243 | 5,467.50 |

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|-------------------------------|---------------------|------|------|------------------|----------------------|----------------|------------------|------|----------|
| DONOR CENTER: (046) BloodCare | | | | | | | | | |
| 96060508-046 | 06/05/96 - 06/05/96 | PFZ | | Terrell, TX | Madix Store Fixtures | 15 | 337.50 | 15 | 337.50 * |
| 96061102-046 | 06/11/96 - 06/11/96 | CBZ | | Dallas, TX | Hoechst Celanese | 10 | 225.00 | 24 | 540.00 * |
| 96061207-046 | 06/12/96 - 06/12/96 | CBZ | | Dallas, TX | Intra Corp | 10 | 225.00 | 15 | 337.50 * |
| 96062707-046 | 06/27/96 - 06/27/96 | CBZ | | Dallas, TX | US Genl Acct Ofc | 5 | 112.50 | | |
| 96063002-046 | 06/30/96 - 06/30/96 | RCZ | | Flower Mound, TX | Trietsch Mem. UMC | 35 | 787.50 | | |
| Total BloodCare | | | | | | 40 | 900.00 | 54 | 1,215.00 |

DONOR CENTER: (048) Am Red Cross-Mid Atlantic Reg

| | | | | | | | | | |
|-------------------------------------|---------------------|-----|--|-----------------|----------------------|-----|----------|-----|------------|
| 96060822-048 | 06/08/96 - 06/08/96 | FSZ | | Hampton, VA | Old Hampton Comm. Ct | 25 | 562.50 | 3 | 67.50 * |
| 96061006-048 | 06/10/96 - 06/10/96 | MOZ | | Vir Beach, VA | Providence Vet Clini | 30 | 675.00 | 27 | 607.50 * |
| 96061801-048 | 06/18/96 - 06/18/96 | CBZ | | Smithfield, VA | Smithfield Packing | 100 | 2,250.00 | 36 | 810.00 * |
| 96061901-048 | 06/19/96 - 06/19/96 | MOZ | | Suffolk, VA | Obici Hospital | 100 | 2,250.00 | 106 | 2,385.00 * |
| 96062302-048 | 06/23/96 - 06/23/96 | RCZ | | Yorktown, VA | Yorkminister Pres. C | 350 | 7,875.00 | 200 | 4,500.00 * |
| 96062602-048 | 06/26/96 - 06/26/96 | CSZ | | Rocky Mount, NC | Edgecombe Comm Coll | 300 | 5,700.00 | 304 | 5,776.00 * |
| Total Am Red Cross-Mid Atlantic Reg | | | | | | 0 | 0.00 | 676 | 14,146.00 |

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|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|
|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|

DONOR CENTER: (049) Inland Northwest Blood Center

| | | | | | | | | | |
|-------------------------------------|---------------------|-----|--|---------------|----------------------|-----|----------|---|------|
| 96060107-049 | 06/01/96 - 06/30/96 | MOZ | | Spokane, WA | Walk-Ins to center | 100 | 2,250.00 | | |
| 96060806-049 | 06/08/96 - 06/08/96 | MOZ | | Kennewick, WA | Tri-Cities Cancer Ce | 100 | 2,250.00 | | |
| 96061506-049 | 06/15/96 - 06/15/96 | SOZ | | Spokane, WA | Cavanaugh's Inn | 40 | 1,000.00 | | |
| Total Inland Northwest Blood Center | | | | | | 240 | 5,500.00 | 0 | 0.00 |

DONOR CENTER: (050) Am Red Cross-Badger-Hawkeye Reg

| | | | | | | | | | |
|---------------------------------------|---------------------|-----|--|-------------------|----------------------|----|--------|----|----------|
| 96060510-050 | 06/05/96 - 06/05/96 | CBZ | | Waterloo, IA | John Deere Works | 25 | 562.50 | 12 | 270.00 * |
| 96060708-050 | 06/07/96 - 06/07/96 | RCZ | | Madison, WI | St. Dennis Church | 20 | 450.00 | 12 | 270.00 * |
| 96061205-050 | 06/12/96 - 06/12/96 | BDZ | | Fort Atkinson, IA | Community Center | 15 | 337.50 | 13 | 292.50 * |
| 96061807-050 | 06/18/96 - 06/18/96 | BDZ | | Madison, WI | Lakeview Lutheran Ch | 20 | 450.00 | 12 | 270.00 * |
| Total Am Red Cross-Badger-Hawkeye Reg | | | | | | 0 | 0.00 | 49 | 1,102.50 |

DONOR CENTER: (051) Am Red Cross-Gr Ches & Potomac Reg

| | | | | | | | | | |
|--------------|---------------------|-----|--|----------------|----------------------|----|--------|---|---------|
| 96062203-051 | 06/22/96 - 06/22/96 | SOZ | | Washington, DC | Prince Georges Comm. | 25 | 562.50 | 4 | 90.00 * |
| 96062603-051 | 06/26/96 - 06/26/96 | CBZ | | Washington, DC | Dept. of Labor | 40 | 900.00 | | |

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|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|
|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|

DONOR CENTER: (051) Am Red Cross-Gr Ches & Potomac Reg

| | | | | | | | | | |
|------------------------------------------|--|--|--|--|--|----|--------|---|-------|
| Total Am Red Cross-Gr Ches & Potomac Reg | | | | | | 40 | 900.00 | 4 | 90.00 |
|------------------------------------------|--|--|--|--|--|----|--------|---|-------|

DONOR CENTER: (054) Hawaii Bone Marrow Donor Registry

| | | | | | | | | | |
|-----------------------------------------|---------------------|-----|--|--------------|---------------------|-----|----------|----|----------|
| 96060146-054 | 06/01/96 - 06/01/96 | OTZ | | Molokai, HI | Molokai Comm. Ctr. | 100 | 2,250.00 | 22 | 495.00 * |
| 96060512-054 | 06/05/96 - 06/05/96 | CBZ | | Honolulu, HI | McCorriston, et al. | 10 | 225.00 | | |
| Total Hawaii Bone Marrow Donor Registry | | | | | | 10 | 225.00 | 22 | 495.00 |

DONOR CENTER: (057) United Blood Services

| | | | | | | | | | |
|-----------------------------|---------------------|-----|--|----------------|----------------|-----|----------|----|------------|
| 96060117-057 | 06/01/96 - 06/30/96 | M0Z | | Scottsdale, AZ | Walkins to Ctr | 275 | 6,187.50 | 78 | 1,755.00 * |
| Total United Blood Services | | | | | | 0 | 0.00 | 78 | 1,755.00 |

DONOR CENTER: (058) Colorado Marrow Donor Program

| | | | | | | | | | |
|--------------|---------------------|-----|--|--------------|----------------------|----|--------|---|----------|
| 96060205-058 | 06/02/96 - 06/02/96 | RCZ | | Brighton, CO | St Augustine Ch | 25 | 562.50 | 5 | 112.50 * |
| 96060831-058 | 06/08/96 - 06/08/96 | CBZ | | Denver, CO | 38th Ave. Street Fai | 40 | 900.00 | 5 | 112.50 * |

Notes:

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|-----------|-------------|------|------|------------------|----------------|------|---------------------|------|-----------------|
|-----------|-------------|------|------|------------------|----------------|------|---------------------|------|-----------------|

DONOR CENTER: (058) Colorado Marrow Donor Program

| | | | | | | | | | |
|-------------------------------------|--|--|--|--|--|---|------|----|--------|
| Total Colorado Marrow Donor Program | | | | | | 0 | 0.00 | 10 | 225.00 |
|-------------------------------------|--|--|--|--|--|---|------|----|--------|

DONOR CENTER: (060) New York Blood Center

| | | | | | | | | | |
|-----------------------------|---------------------|-----|--|------------------|----------------------|-----|----------|-----|------------|
| 96060116-060 | 06/01/96 - 06/01/96 | CBZ | | Yonkers, NY | Cablevision-Wchester | 30 | 675.00 | 30 | 675.00 * |
| 96060150-060 | 06/01/96 - 06/02/96 | LSA | | Carmel, NY | Putnam Hosp Fair | 100 | 2,250.00 | 203 | 4,567.50 * |
| 96060503-060 | 06/05/96 - 06/05/96 | CBZ | | Bayonne, NJ | Cablevision | 100 | 2,250.00 | 28 | 630.00 * |
| 96060601-060 | 06/06/96 - 06/06/96 | CBZ | | Union City, NJ | Cablevision | 100 | 2,250.00 | 2 | 45.00 * |
| 96060827-060 | 06/08/96 - 06/08/96 | CBZ | | Tinton Falls, NJ | Cablevision/Monmouth | 100 | 2,250.00 | 2 | 45.00 * |
| 96060913-060 | 06/09/96 - 06/09/96 | SOZ | | New Rochelle, NY | Young Israel/New Roc | 150 | 3,375.00 | 56 | 1,260.00 * |
| 96062104-060 | 06/21/96 - 06/21/96 | CBZ | | Upton, NY | Brookhaven Natl Labs | 25 | 562.50 | 16 | 360.00 * |
| Total New York Blood Center | | | | | | 0 | 0.00 | 337 | 7,582.50 |

DONOR CENTER: (063) LifeSource

| | | | | | | | | | |
|--------------|---------------------|-----|--|---------------------|--------------------|-----|----------|-----|------------|
| 96060112-063 | 06/01/96 - 06/01/96 | RCZ | | Chicago/McHenry, IL | Shepherd of Hills | 100 | 2,250.00 | 100 | 2,250.00 * |
| 96062902-063 | 06/29/96 - 06/29/96 | CBZ | | Chicago, IL | McCormick Pl/CoH | 350 | 7,875.00 | | |
| 96062903-063 | 06/29/96 - 06/29/96 | PFZ | | Lake Forest, IL | St Patricks Parish | 150 | 3,375.00 | | |

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| DONOR CENTER: (063) LifeSource | | | | | | | | | |
| ----- | | | | | | | | | |
| Total LifeSource | | | | | | | | | |
| ----- | | | | | | | | | |
| DONOR CENTER: (066) Blood Bank Of Alameda-Contra Costa | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060413-066 | 06/04/96 - 06/04/96 | PFZ | | Hayward, CA | Mervyn's | 60 | 1,350.00 | 85 | 1,912.50 * |
| ----- | | | | | | | | | |
| Total Blood Bank Of Alameda-Contra Costa | | | | | | | | | |
| ----- | | | | | | | | | |
| DONOR CENTER: (067) City of Hope Natl Med Ctr | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060211-067 | 06/02/96 - 06/02/96 | RCZ | | Simi Valley, CA | Simi Valley Comm.Ch. | 100 | 2,250.00 | 63 | 1,417.50 * |
| ----- | | | | | | | | | |
| Total City of Hope Natl Med Ctr | | | | | | | | | |
| ----- | | | | | | | | | |
| DONOR CENTER: (070) Heart Of America Bone Marrow Donor Reg. | | | | | | | | | |
| ----- | | | | | | | | | |
| 96060144-070 | 06/01/96 - 06/30/96 | MOZ | | Kansas City, MO | Walk-Ins to Center | 250 | 5,625.00 | | |
| 96060203-070 | 06/02/96 - 06/02/96 | RCZ | | San Luis Obispo, CA | Veterans Hall | 40 | 900.00 | | |
| 96060206-070 | 06/02/96 - 06/02/96 | PFZ | | Howard, KS | Howard H S | 300 | 6,750.00 | 110 | 2,475.00 * |

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| DONOR CENTER: (070) Heart Of America Bone Marrow Donor Reg. | | | | | | | | | |
| 96060907-070 | 06/09/96 - 06/09/96 | PFZ | | Overland Park, KS | Kehilath Israel Syna | 475 | 10,687.50 | 337 | 7,582.50 * |
| 96060912-070 | 06/09/96 - 06/09/96 | MOZ | | Crescent City, CA | American Cancer Soci | 100 | 2,250.00 | 61 | 1,372.50 * |
| 96061306-070 | 06/13/96 - 06/14/96 | CBZ | | Lenexa, KS | Lenexa Police Dept. | 200 | 4,500.00 | 29 | 652.50 * |
| 96061502-070 | 06/15/96 - 06/15/96 | RCZ | | Coffeyville, KS | Bethel AME | 25 | 562.50 | 1 | 22.50 * |
| 96062206-070 | 06/22/96 - 06/22/96 | PFZ | | Lawrence, KS | Crown Chevrolet | 300 | 6,750.00 | 88 | 1,980.00 * |
| 96063003-070 | 06/30/96 - 06/30/96 | PFZ | | Overland Park, KS | Jewish Comm Ctr | 200 | 4,500.00 | 294 | 6,615.00 * |
| Total Heart Of America Bone Marrow Donor Reg. | | | | | | 290 | 6,525.00 | 920 | 20,700.00 |

DONOR CENTER: (074) HLA Registry Foundation, Inc.

| | | | | | | | | | |
|-------------------------------------|---------------------|-----|--|----------------|----------------------|-----|----------|-----|------------|
| 96060127-074 | 06/01/96 - 06/30/96 | PFZ | | River Edge, NJ | Community Services | 200 | 4,500.00 | | |
| 96060705-074 | 06/07/96 - 06/07/96 | PFZ | | Clementon, NJ | Fox & Lazo Comm. Dr. | 75 | 1,687.50 | 31 | 697.50 * |
| 96060709-074 | 06/07/96 - 06/07/96 | OTZ | | Moonachie, NJ | Moonachie Comm. Driv | 30 | 675.00 | 7 | 157.50 * |
| 96060808-074 | 06/08/96 - 06/08/96 | CSZ | | Cambbridge, MA | Harvard Square Reuni | 200 | 4,500.00 | 13 | 292.50 * |
| 96060830-074 | 06/08/96 - 06/08/96 | CBZ | | Lakewood, NY | Chautaugua Nall | 150 | 3,375.00 | 161 | 3,622.50 * |
| 96061514-074 | 06/15/96 - 06/15/96 | RCZ | | Cuba, NY | Wesleyan Church | 80 | 1,800.00 | 79 | 1,777.50 * |
| 96062305-074 | 06/23/96 - 06/23/96 | SOZ | | Getzville, NY | Jewish Comm. Center | 90 | 2,025.00 | 8 | 180.00 * |
| 96062306-074 | 06/23/96 - 06/23/96 | RCZ | | Mt. Vernon, NY | Free Synagogue of We | 100 | 2,250.00 | 13 | 292.50 * |
| Total HLA Registry Foundation, Inc. | | | | | | 200 | 4,500.00 | 312 | 7,020.00 |

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| DONOR CENTER: (076) Community Blood Center | | | | | | | | | |
| 96060128-076 | 06/01/96 - 06/01/96 | RCZ | | Dayton, OH | St. Paul Lutheran | 20 | 450.00 | | |
| Total Community Blood Center | | | | | | 20 | 450.00 | 0 | 0.00 |
| DONOR CENTER: (078) Virginia Blood Svs | | | | | | | | | |
| 96061511-078 | 06/15/96 - 06/15/96 | MOZ | | Ettrick, VA | Ettrick Med Ctr | 5 | 112.50 | | |
| Total Virginia Blood Svs | | | | | | 5 | 112.50 | 0 | 0.00 |
| DONOR CENTER: (081) Puget Sound Blood Center | | | | | | | | | |
| 96060832-081 | 06/08/96 - 06/08/96 | CSZ | | Tacoma, WA | Evergreen State Coll | 10 | 225.00 | 12 | 270.00 * |
| 96061519-081 | 06/15/96 - 06/15/96 | SOZ | | Bremerton, WA | Puget Sound Naval Sh | 30 | 675.00 | 11 | 247.50 * |
| 96061808-081 | 06/18/96 - 06/18/96 | SOZ | | Forks, WA | VFW Hall | 40 | 900.00 | 22 | 495.00 * |
| 96061904-081 | 06/19/96 - 06/19/96 | MOZ | | Vancouver, WA | SW Wash. Med. Ctr. | 25 | 562.50 | 73 | 1,642.50 * |
| Total Puget Sound Blood Center | | | | | | 0 | 0.00 | 118 | 2,655.00 |

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|------------------------------------------------------|---------------------|------|------|------------------|----------------------|------|------------------|------|--------------|
| DONOR CENTER: (089) Mountain States Marrow Donor Ctr | | | | | | | | | |
| 96060604-089 | 06/06/96 - 06/06/96 | CBZ | | Payettte, ID | Holy Family Cath. Ch | 90 | 2,025.00 | 86 | 1,935.00 * |
| 96060823-089 | 06/08/96 - 06/08/96 | PFZ | | Jerome, ID | Jerome City Park | 200 | 4,500.00 | 77 | 1,732.50 * |
| Total Mountain States Marrow Donor Ctr | | | | | | 0 | 0.00 | 163 | 3,667.50 |
| DONOR CENTER: (092) United Blood Services | | | | | | | | | |
| 96060148-092 | 06/01/96 - 06/30/96 | BDZ | | Las Vegas, NV | Walk-Ins to Center | 75 | 1,687.50 | 7 | 157.50 * |
| Total United Blood Services | | | | | | 0 | 0.00 | 7 | 157.50 |
| DONOR CENTER: (093) Mississippi Marrow Donor Program | | | | | | | | | |
| 96060815-093 | 06/08/96 - 06/08/96 | CBZ | | Jackson, MS | Jackson Mall | 5 | 112.50 | 5 | 112.50 * |
| 96062207-093 | 06/22/96 - 06/22/96 | CBZ | | Grenada, MS | Bingo Town | 25 | 562.50 | 5 | 112.50 * |
| Total Mississippi Marrow Donor Program | | | | | | 0 | 0.00 | 10 | 225.00 |

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|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|
|-----------|-------------|------|------|------------------|----------------|------|------------------|------|--------------|

DONOR CENTER: (094) Baylor Research Institute

| | | | | | | | | | |
|--------------|---------------------|-----|--|---------------------------------|-------------------|-----|-----------|---|------|
| 96060120-094 | 06/01/96 - 06/30/96 | MOZ | | Dallas, TX | Walkins to Ctr | 30 | 525.00 | | |
| 96061403-094 | 06/14/96 - 06/14/96 | CBZ | | Fair Park, TX | Imax Theatre | 25 | 437.50 | | |
| 96062004-094 | 06/20/96 - 06/20/96 | CBZ | | Irving, TX | Cham of Commerce | 10 | 175.00 | | |
| 96062201-094 | 06/22/96 - 06/22/96 | PFZ | | Texarkana, TX | Texas High School | 450 | 7,875.00 | | |
| 96062309-094 | 06/23/96 - 06/23/96 | PFZ | | Forney, TX | First Bapt Ch | 125 | 2,187.50 | | |
| | | | | Total Baylor Research Institute | | 640 | 11,200.00 | 0 | 0.00 |

DONOR CENTER: (097) Community Blood Center, Inc.

| | | | | | | | | | |
|--------------|---------------------|-----|--|------------------------------------|--------------------|----|----------|----|----------|
| 96061905-097 | 06/19/96 - 06/19/96 | BDZ | | Appleton, WI | Walk-Ins to Center | 50 | 1,375.00 | 30 | 825.00 * |
| | | | | Total Community Blood Center, Inc. | | 0 | 0.00 | 30 | 825.00 |

DONOR CENTER: (098) SE Community Blood Center

| | | | | | | | | | |
|--------------|---------------------|-----|--|---------------------------------|----------------------|----|--------|---|----------|
| 96060409-098 | 06/04/96 - 06/04/96 | CBZ | | Tallahassee, FL | Fringe Benefits Mgmt | 30 | 750.00 | 5 | 125.00 * |
| | | | | Total SE Community Blood Center | | 0 | 0.00 | 5 | 125.00 |

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|------------------------------------------------|---------------------|------|------|------------------|----------------------|------|------------------|------|--------------|
| DONOR CENTER: (101) Cook-Childrens Medical Ctr | | | | | | | | | |
| 96060101-101 | 06/01/96 - 06/01/96 | PFZ | | Fort Worth, TX | Safety & Health Fair | 10 | 225.00 | 2 | 45.00 * |
| 96060403-101 | 06/04/96 - 06/04/96 | PFZ | | Odessa, TX | Head Start Health Fa | 20 | 380.00 | 20 | 380.00 * |
| 96060411-101 | 06/04/96 - 06/04/96 | PFZ | | Brownwood, TX | Brownwood Reg. Med. | 150 | 3,375.00 | 54 | 1,215.00 * |
| 96060833-101 | 06/08/96 - 06/09/96 | PFZ | | Horizon, TX | Holy Spirit | 10 | 225.00 | 10 | 225.00 * |
| 96060834-101 | 06/08/96 - 06/08/96 | PFZ | | Las Cruces, NM | Hope Lumber Co. | 100 | 2,250.00 | 60 | 1,350.00 * |
| 96061803-101 | 06/18/96 - 06/18/96 | PFZ | | Spur, TX | Spur Elementary Scho | 20 | 450.00 | 8 | 180.00 * |
| 96061804-101 | 06/18/96 - 06/18/96 | PFZ | | Ralls, TX | Ralls Elementary Sch | 20 | 450.00 | 11 | 247.50 * |
| 96061906-101 | 06/19/96 - 06/19/96 | PFZ | | Ozona, TX | Ozona Civic Center | 40 | 900.00 | 22 | 495.00 * |
| 96062106-101 | 06/21/96 - 06/21/96 | PFZ | | Abilene, TX | Texas Ono. Phy. Alli | 40 | 900.00 | 49 | 1,102.50 * |
| Total Cook-Childrens Medical Ctr | | | | | | 0 | 0.00 | 236 | 5,240.00 |
| DONOR CENTER: (103) United Blood Services | | | | | | | | | |
| 96060704-103 | 06/07/96 - 06/07/96 | M0Z | | Evanston, IL | LRF-McGaw YMCA | 100 | 2,250.00 | 115 | 2,587.50 * |
| 96060818-103 | 06/08/96 - 06/08/96 | M0Z | | Evanston, IL | LRF-Alden Estates | 50 | 1,125.00 | 72 | 1,620.00 * |
| Total United Blood Services | | | | | | 0 | 0.00 | 187 | 4,207.50 |

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|------------------------------------------------------------|---------------------|------|------|------------------|----------------------|------|------------------|------|--------------|
| DONOR CENTER: (112) Cooperative Appalachian Marrow Program | | | | | | | | | |
| 96061305-112 | 06/13/96 - 06/13/96 | CBZ | | Knoxville, TN | Lockheed & Medic Reg | 100 | 2,250.00 | 55 | 1,237.50 * |
| Total Cooperative Appalachian Marrow Program | | | | | | 0 | 0.00 | 55 | 1,237.50 |
| DONOR CENTER: (115) Blood Assurance, Inc. | | | | | | | | | |
| 96060209-115 | 06/02/96 - 06/02/96 | RCZ | | Chattanooga, TN | First Pres. Church | 200 | 4,500.00 | 129 | 2,902.50 * |
| Total Blood Assurance, Inc. | | | | | | 0 | 0.00 | 129 | 2,902.50 |
| DONOR CENTER: (116) Scott And White Clinic | | | | | | | | | |
| 96060138-116 | 06/01/96 - 06/30/96 | M0Z | | Temple, TX | Walk-Ins to Center | 20 | 450.00 | 10 | 225.00 * |
| 96060828-116 | 06/08/96 - 06/08/96 | HFZ | | Rockdale, TX | Rockdale Health Fair | 15 | 337.50 | 14 | 315.00 * |
| Total Scott And White Clinic | | | | | | 0 | 0.00 | 24 | 540.00 |
| DONOR CENTER: (118) Am Red Cross-SE Region Blood Svs | | | | | | | | | |
| 96060115-118 | 06/01/96 - 03/30/96 | M0Z | | Savannah, GA | Walkins to Satellite | 60 | 1,350.00 | 22 | 495.00 * |

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|------------------------------------------------------|-------------|------|------|------------------|----------------|----------------|------------------|--------|--------------|
| | | | | | | | | | |
| DONOR CENTER: (118) Am Red Cross-SE Region Blood Sys | | | | | | | | | |
| ----- | | | | | | | | | |
| Total Am Red Cross-SE Region Blood Sys | | | | | | 0 | 0.00 | 22 | 495.00 |
| Total | | | | | | 3,947 | 87,163.75 | 11,465 | 258,142.75 |

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